

What is claimed is:

1. A speaker system comprising:

a speaker,

amplitude detecting means for detecting an amplitude
5 value of a diaphragm of the speaker to produce an amplitude
signal corresponding to the amplitude value, and

adding means for adding the amplitude signal to a driving
signal for driving the speaker.

2. A speaker system according to claim 1, wherein the
10 amplitude detecting means comprises:

velocity detecting means for detecting a velocity of the
diaphragm of the speaker to produce a velocity signal; and

integrating means for integrating the integrated
15 velocity signal to produce the amplitude signal.

3. A speaker system according to claim 2, wherein the
integrating means is a first order low pass filter having a
cutoff frequency that is lower than a lowest resonance frequency
20 f_0 of the speaker.